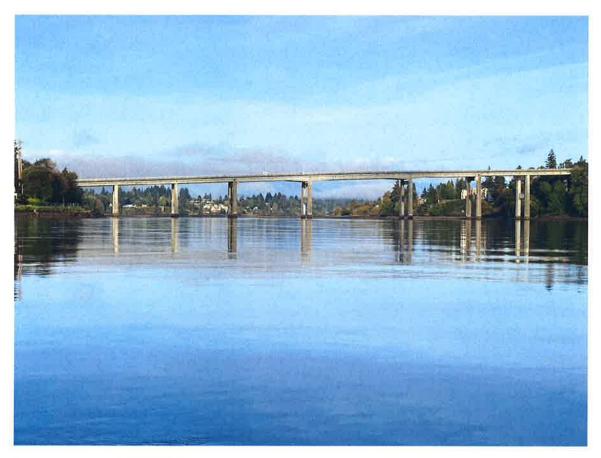


UNDERWATER INSPECTION REPORT FOR

PORT WASHINGTON CS1840

BRIDGE NO. 303/12

STRUCTURE ID 0005565A



Prepared For

WSDOT

Inspection Date

October 14, 2020

Lead Inspector/Diver Darren O. Nebergall **Cert. #** G0314

Inspector/Diver

Richard M. Pawelka

Status: Released

Printed On: 1/7/2021

Agency:

Washington State

CD Guid: 24aab633-e3cf-4171-8731-d8188854429e

CD Date: 12/8/2020

Program Mgr: Evan M Grimm

UNDERWATER INSPECTION REPORT FOR THE PORT WASHINGTON CS1840

BRIDGE NO. 303/12 STRUCTURE ID 0005565A

EXECUTIVE SUMMARY

The WSDOT Bridge Preservation Office (BPO) Dive Team performed an underwater inspection of the Port Washington CS1840 bridge over the Port Washington Narrows on October 14th and 19th, 2020. Piers 3 through 9 were in the waterway during the inspection. All in-water piers are comprised of two concrete columns with an upper strut, founded on a shared spread footing/seal.

The submerged portions of the substructure are in fair to good condition. Several of the columns have vertical corner cracking or spalls just above the intertidal zone (ITZ), some with rusty staining from rusty rebars. The submerged portions of the columns have heavy marine growth up to 6-inches thick. The pedestals and footings are also heavily encrusted with marine growth, up to several feet thick. Tops of footings were typically very uneven and vary in elevation several feet. Some of the piers had portions of steel cofferdam still in place. Pier concrete condition was mostly sound, but Piers 4 & 7 were noted to have several areas of poor consolidation voiding in the footing vertical faces and at the column/footing interfaces.

All submerged piers have exposed footings to varying extents. The footing exposures are similar to previous underwater inspections. The maximum vertical footing exposure was found at Pier 3 on the northwest corner where there is an estimated remaining embedded depth of 10-feet. No evidence of significant local scour was found at the piers since the last underwater inspection. Riprap protection is in place at Piers 4 through 8. Riprap extents should continue to be monitored during each underwater inspection, since the piers were designed for riprap protection. REPAIR #14242 calls for the riprap to be restored to the originally designed conditions.

Recommend retaining 60-month frequency for underwater inspections.



Daily Site Dive Log

Status: Released

Printed On: 1/7/2021

Agency: Washington State

CD Guid: 24aab633-e3cf-4171-8731-d8188854429e

CD Date: 12/8/2020

Program Mgr: Evan M Grimm

Inspector Darren O. Nebergall Date 10/14/2020 Bridge No. 303/12 Bridge Name PORT WASHINGTON CS1840 Waterway Name PORT WASHINGTON NARROWS **Bridge Type** Girder and floorbeam system Dive Objective Inspection of submerged substructure elements. **Diving Operation** Type of Operation ☐ SCUBA Surface Supplied Air ☐ Snorkel ☐ ROV ☐ Other Equipment Suit Dry suit Air Supply Surface Supplied **Site Access** Munson Dive Boat - Launched from Evergreen Rotary Park Inspection Tools Hammer/scraper, u/w light, GoPro camera, survey rod **Conditions** Water ✓ Salt Fresh Brackish 55 °F 5-10 ft Temperature Visibility Surface ✓ Calm Choppy Rough Tide Flood **✓** Ebb □N/A High Low ✓ Moderate Slow 1-2 Current Fast Velocity ft/sec Weather Clear ✓ Cloudy Overcast Rain Windy Air Temp 52 °F **Diver Checks** First Aid Equipment on Site ✓ Physical Condition of Diver(s) Checked ✓ Communication for EMS ✓ Communications for Diver(s) Checked ▼ Team Briefed and Understands Dive Plan ✓ Dive Gear Inspected ✓ Air Source Checked Special Site Hazards Noted ✓ Pre-Activity Safety Plan Reviewed ✓ Line-Tending Procedures Reviewed **Dive Plan and Dive Team Procedures** Assess site conditions and determine type of dive operation. Hold on-site pre-dive safety meeting to discuss and plan dive operation, determine roles and responsibilities, review emergency procedures, and check physical condition of diver(s). Assemble and check dive gear. Check communication for diver(s), After completion of dive, review notes.

check condition of diver(s), take soundings and photos as required.



Daily Site Dive Log

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CD Date: 12/8/2020

Program Mgr: Evan M Grimm

Dive Schedule

Dive No.	Entry Time	Exit Time	Total Time in Water	Maximum Depth	Remarks
1	09:31:00	09:53:00	00:22:00	16 fsw *	RMP dive Pier 9
2	10:09:00	10:25:00	00:16:00	29 fsw *	RMP dive Pier 8
3	10:41:00	11:02:00	00:21:00	31 fsw *	RMP dive Pier 7
4	11:10:00	11:25:00	00:15:00	16 fsw *	RMP dive Pier 3

Dive Narrative

The team converged at the boat ramp parking lot (Evergreen Rotary Park) and discussed site specific hazards, diving mode, and team roles during the pre-activity safety meeting. A surface-supplied diving operation was chosen and the necessary gear was assembled and checked while the boat was prepared for launching. A water tie was taken at Pier 3 and then the boat was moved to Pier 9 when the inspection started once the tidal current slowed. The diver splashed and proceeded to inspect the columns and exposed foundation, relaying notes and channel bottom water depths to support personnel on the boat via hardwired comms in the diver umbilical. When Pier 9 was completed, the diver was recovered back to the boat and the operation moved to the next pier where the process was repeated. The diver's condition was checked at the end of each dive. Notes and photos were reviewed for completeness prior to leaving the site for the day.

- # Air IN / OUT (psig in the bank)
- 1 3575 / 3325
- 2 3325 / 3175
- 3 3175 / 2925
- 4 2925 / 2850

Dive Team Members

Darren Nebergall, P.E. (DON)	Inspector / Notes
(Name)	(Role)
Richard Pawelka, P.E. (RMP)	Diver
(Name)	(Role)
Richard Pawelka, P.E. (RMP) (Name) ames Harding, P.E. (JRWH) (Name)	Stand-by diver
(Name)	(Role)
Michael Smith, P.E. (MBS)	DPIC
(Name)	(Role)

^{*} fsw = feet sea water



Darren O. Nebergall

Daily Site Dive Log

10/19/2020

Status: Released

Inspector

Printed On: 1/7/2021

Agency: Washington State

Date

CD Guid: 24aab633-e3cf-4171-8731-d8188854429e

CD Date: 12/8/2020

Program Mgr: Evan M Grimm

Diving Opera	ation							
• .	ration SCUBA	✓ Surface Supplied Air Snorkel ROV Other						
Equipment	Suit	Dry suit						
	Air Supply	Surface Supplied						
	Site Access							
	Inspection 1	Hammer/scraper, u/w light, GoPro camera, survey rod						
R								
Conditions								
Water	y Salt	☐ Fresh ☐ Brackish Temperature <u>55</u> °F Visibility <u>8-10</u> ft						
Surface	✓ Calm	☐ Choppy ☐ Rough						
Tide	High	✓ Low ☐ Flood ✓ Ebb ☐ N/A						
Current	Fast	✓ Moderate Slow Velocity 1-2 ft/sec						
Weather	☐ Clear	☐ Cloudy ☑ Overcast ☐ Rain ☐ Windy Air Temp60°F						
Diver Check	s							
	✓ First Aid	Equipment on Site Physical Condition of Diver(s) Checked						
	☑ Commur	nication for EMS Communications for Diver(s) Checked						
	✓ Dive Ge	ar Inspected						
	✓ Air Sour	ce Checked						
	✓ Pre-Active	vity Safety Plan Reviewed						
	COVID-	19 Requirements						
Dive Plan an	d Dive Team I	Procedures						
		errocedures ermine type of dive operation. Hold on-site pre-dive safety meeting to discuss and plan						
dive operatio diver(s). Asse	n, determine roles emble and check o	and responsibilities, review emergency procedures, and check physical condition of live gear. Check communication for diver(s). After completion of dive, review notes, a soundings and photos as required.						



Daily Site Dive Log

Status: Released

Printed On: 1/7/2021

Agency: Washington State

CD Guid: 24aab633-e3cf-4171-8731-d8188854429e

CD Date: 12/8/2020

Program Mgr: Evan M Grimm

Dive Schedule

Dive No.	Entry Time	Exit Time	Total Time in Water	Maximum Depth	Remarks
1	14:04:00	14:24:00	00:20:00	31 fsw *	JRWH - dive Pier 6
2	14:33:00	14:51:00	00:18:00	45 fsw *	JRWH - dive Pier 5
3	14:57:00	15:13:00	00:16:00	31 fsw *	JRWH - dive Pier 4

Dive Narrative

The team converged at the boat ramp parking lot (Evergreen Rotary Park) and discussed site specific hazards, diving mode, and team roles during the pre-activity safety meeting. A surface-supplied diving operation was chosen and the necessary gear was assembled and checked while the boat was prepared for launching. A water tie was taken at Pier 3 and then the boat was moved to Pier 6 when the inspection started once the tidal current slowed. The diver splashed and proceeded to inspect the columns and exposed foundation, relaying notes and channel bottom water depths to support personnel on the boat via hardwired comms in the diver umbilical. When Pier 6 was completed, the diver was recovered back to the boat and the operation moved to the next pier where the process was repeated. The diver's condition was checked at the end of each dive. Notes and photos were reviewed for completeness prior to leaving the site for the day.

- # Air IN / OUT (psig in the bank)
- 1 2600 / 2450
- 2 2450 / 2250
- 3 2250 / 2000

Dive Team Membe	

Darren Nebergall, P.E. (DON)	Inspector / Notes
(Name)	(Role)
James Harding, P.E. (JRWH)	Diver
(Name)	(Role)
Richard Pawelka, P.E. (RMP)	Stand-by diver
(Name)	(Role)
Michael Smith, P.E. (MBS)	DPIC
(Name)	(Role)

^{*} fsw = feet sea water



Underwater Inspection Report

Status: Released

Printed On: 1/7/2021

Agency: Washington State

CD Guid: 24aab633-e3cf-4171-8731-d8188854429e

CD Date: 12/8/2020 Program Mgr: Evan M Grimm

Inspector Darren O. Nebergall Agency/Owner WSDOT Date 10/14/2020 Bridge No. 303/12 Bridge Name PORT WASHINGTON CS1840 **Bridge Type** Girder and floorbeam system Waterway Name PORT WASHINGTON NARROWS Substructure Concrete Columns **Foundation** Concrete Footings and Seals No. Spans 15 7 No. Piers Dived Inspection Hours 7.0

6 Substructure Condition (1676)	8 Chan/Protection (1677)	3 Scour Code (1680)	
---------------------------------	--------------------------	---------------------	--

BMS Elements										
Element	Element Description	Total	Units	State 1	State 2	State 3	State 4			
220	Concrete Submerged Foundation	7	EA	5	0	2	0			
227	Concrete Submerged Pile/Column	14	EA	10	0	4	0			
361	Scour	7	EA	0	0	7	0			

m j	Notes Notes
0	Bridge is oriented south to north. The City of Bremerton has stockpiled sand below Spans 12 and 13. Lebo Blvd. is under Span 14. The area below Span 15 is enclosed by a chain link fence. In 2014 the area was accessed from Lebo Blvd. by removing two fence ties and pulling back the fence. Trees obstruct UBIT access below Spans 10 and 11 (Photos #72). REPAIR #14239.
	Damage Report 10/16/20 On 10/16/20 a southbound RV lost control, crossing over all lanes and damaging the northeast approach rail, transition and pedestrian rail. See element notes #340, #685, and #686.
220	Underwater Inspection Findings: Quantity includes the seven submerged footings that are exposed, Piers 3 through 9. All submerged concrete is heavily encrusted with marine growth (Photo #UW-2 and #UW-7). All pedestal and footing top surfaces are very irregular and vary in elevation several feet. There are some steel sheet pile cofferdam remains in place around the footings at Pier 4, 5, and 9 (Photo #UW-8). Piers 5 and 7 have some poor consolidation voids/lenses in the footing (CS3).
227	Piers 2-10 included in quantity. Piers 3, 4, 5 and 6 struts have diagonal leaching cracks. Pier 6 Column A, east face has a 3-ft x 2-ft delaminated area just above the intertidal zone (Photo #UW-3). Pier 7 outside corners have shallow impact spalls just above the intertidal zone (Photo #UW-4). Pier 8 columns have vertical cracks up to 4 ft. long in the intertidal zone. Some are delaminated with rust staining. The SW corner of Column A has spalled, exposing the corner vertical rebar (Photo #UW-5).
	Underwater Inspection Findings: All in water piers have two columns with a strut above and a shared footing below (Photo #UW-9). Heavy marine growth on submerged columns in Piers 3 through 9 (Photo #UW-10). Random cleaning in small areas revealed sound concrete. Pier 7 Column B has a poor consolidation void at the column/footing interface, 18-inches along the south and east faces.



Underwater Inspection Report

Status: Released

Underwater

10/14/2020 60

7.0

DON G0314 RMP

Printed On: 1/7/2021

Agency: Washington State

CD Guid: 24aab633-e3cf-4171-8731-d8188854429e

CD Date: 12/8/2020 Program Mgr: Evan M Grimm

Inspector Darren O. Nebergall Agency/Owner WSDOT Date 10/14/2020

Bridge No. 303/12 Bridge Name PORT WASHINGTON CS1840

Bridge Type Girder and floorbeam system Waterway Name PORT WASHINGTON NARROWS

Substructure Concrete Columns Foundation Concrete Footings and Seals

No. Spans 15 No. Piers Dived 7 Inspection Hours 7.0

Wouds				JIII A		No	tes (C	ontinued	1 150		3 5 7 7	Albert III	V 67 2 18 3 8
			is over salt wallope repair at			ough							
(\ S	overal vas de omew mbed	chai signe hat h ment	ed for riprap p	with on rotectic al footi corner	ly minor on at all in ng exposi of Pier 3	-wate ures a where	er piers. are within e 10-ft re	Riprap in pla 1-2 ft. of wh mains to the	ce at F at was bottor	Piers 4 thrus noted pre	ous underwate 18 has settled eviously. Minir oting.	/consolidate	ed
	Underwater Inspection Findings: Stable, well vegetated tidal banks in the vicinity of the bridge. Riprap in place along the north shore. See Photos #UW-11 and #UW-12.												
	The P	ier 3		g is 15'	0" thick.	Piers	4 and 8	have 20' 0" t	hick sp	read footir	are designed f ngs. The Pier s 16' 6" thick.		
			loes channel : Jnderwater In						metric	surveys a	t the request o	of the Scou	r Engineer.
	7						Rep	airs		eres, you			A The
Repair No	Pr	R		R	epair De	scrip	tion			BMS	Noted	Maint	Verified
142	12 1	s	submerged	Design and install scour countermeasures for all submerged piers to rebuild the channel bottom around the piers back to original design plans.					361		10/9/2018		
		157	Ins	spect	ions P	erfo	rmed a	and Reso	urce	s Requ	ired		Y. Spirit
Report Typ	<u>e</u>		Date	Freq	<u>Hrs</u> I	nsp	CertNo	Coinsp			Note		
Routine			10/13/2020	24	2.0	FPP	G0710	RAB					
Resources	Но	urs	Min	Pref	Max	Fr	eq Date	Need	Date	Override	Notes		
SNDG											groundlines	inspectors p . Regional in take soundir	spectors do
Fracture C			10/13/2020			=PP	G0710						
Resources	Ho	urs	Min	Pref	Max	Fr	eq Date	Need	Date	Override	Notes		
UBIT	5.	00	52	62	62	2	4 10/13/2	2020 10/13	/2022		Deployed from	om both side	s.
Attenuator Scheduling											357-2763 to	-	on at (360) traffic control AYS 9 A.M
Restrictions											3 P.M.		

Underwater inspection by WSDOT Dive Team.



Underwater Inspection Report

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CD Date: 12/8/2020 Program Mgr: Evan M Grimm

Inspector

Darren O. Nebergall

Agency/Owner WSDOT

Date

10/14/2020

Bridge No.

303/12

Bridge Name PORT WASHINGTON CS1840

Bridge Type

Girder and floorbeam system

Waterway Name

PORT WASHINGTON NARROWS

Substructure

Concrete Columns

Foundation

Concrete Footings and Seals

No. Spans

15

No. Piers Dived

7

Inspection Hours 7.0

Resources	Hours	Min	Pref	Ma	x Fre	eq Date		Need Date	Override	Notes
SNDG					60	0 10/14/	2020	10/14/2025		Underwater inspectors provide groundlines. Regional inspectors do not need to take soundings.
Boat	8.00	М	М	М						Munson dive boat launched from boat ramp between Warren Ave and Manette Bridges.
Tides										Check slack tide times for the optimal dive inspection experience (Port Washington, South Entrance is the more accurate prediction for the bridge site).
Damage		10/16/2020		1.0	GAS	G0709		over all	lanes and da	bound RV lost control, crossing maging the northeast approach edestrian rail.
Geometric		9/4/2013	144	1.0	GGI	GEOM	DJM		ed CFDR from Geometric Re	4/4/20 Damage eport

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Program Mgr: Evan M Grimm

Br. No. 303/12

SID 0005565A

Br. Name PORT WASHINGTON CS1840

Carrying SR 303

Route On 00303

Route Under

Mile Post

Mile Post 0.73

UW-2

220 Concrete Submerged Foundation

Photo Type:

S - Scour

Orientation:

10/26/2015

Date: Repairs:

14242

Typical heavy marine growth on

submerged surfaces.



UW-7

220 Concrete Submerged Foundation

Photo Type:

S - Scour

Orientation:

NW

Date:

10/14/2020

Repairs:

14242

Pier 8 top of footing showing typical heavy marine growth on submerged

surfaces.



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Br. No. 303/12

SID 0005565A

Br. Name PORT WASHINGTON CS1840

Route Under

Carrying SR 303

OID OOOOOO

Route On 00303

Intersecting PORT WASHINGTON NARROWS

Mile Post

Mile Post 0.73

UW-8

220 Concrete Submerged Foundation

Photo Type:

I - In Depth

Orientation:

sw

Date:

10/14/2020

Repairs:

North face Pier 4 top of footing and sheet pile cofferdam remains.



UW-3

227 Concrete Submerged Pile-Column

Photo Type:

G - General

Orientation:

NW

Date:

10/26/2015

Repairs:

Pier 6, Column A, east face; 3-ft x 2-ft delam/spall just above the ITZ.



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00303

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Program Mgr: Evan M Grimm

Br. No. 303/12

SID 0005565A

Br. Name PORT WASHINGTON CS1840

Carrying SR 303

Route On

Mile Post 0.73

Intersecting PORT WASHINGTON NARROWS

Route Under

Mile Post

UW-4

227 Concrete Submerged Pile-Column

Photo Type:

G - General

Orientation:

_

Date:

10/26/2015

Repairs:

Pier 7, Column A, NW corner; shallow impact spalls. Typical of other corners on Pier 7 columns.



UW-5

227 Concrete Submerged Pile-Column

Photo Type:

G - General

Orientation:

NE

Date:

10/26/2015

Repairs:

Pier 8, Column A, SW corner; spalled corner with exposed rebar. Other Pier 8 corners have vertical cracking with rust staining.



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Intersecting PORT WASHINGTON NARROWS

Release Date: 1/7/2021

Program Mgr: Evan M Grimm

Br. No. 303/12

SID 0005565A

Br. Name PORT WASHINGTON CS1840

Carrying SR 303

Route On 00303

Route Under

Mile Post

Mile Post 0.73

UW-9

227 Concrete Submerged Pile-Column

Photo Type:

G - General

Orientation:

NW

Date:

10/14/2020

Repairs:

Pier 9. Typical in-water pier elevation and configuration. Note north bank riprap.



UW-10

227 Concrete Submerged Pile-Column

Photo Type:

I - In Depth

Orientation:

DN

Date:

10/14/2020

Repairs:

Looking down the east column at Pier 8, showing typical heavy marine growth below the ITZ.



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Release Date: 1/7/2021

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Br. No. 303/12

SID 0005565A

Br. Name PORT WASHINGTON CS1840

Carrying SR 303

Route On

Mile Post 0.73

Intersecting PORT WASHINGTON NARROWS

Route Under

Mile Post

UW-11

1677 Channel Protection

Photo Type:

G - General

Orientation:

E

Date:

10/14/2020

Repairs:

Channel view looking east (towards

Manette Bridge).



UW-12

1677 Channel Protection

Photo Type:

G - General

Orientation:

W

Date:

10/14/2020

Repairs:

Channel view looking west into Dyes

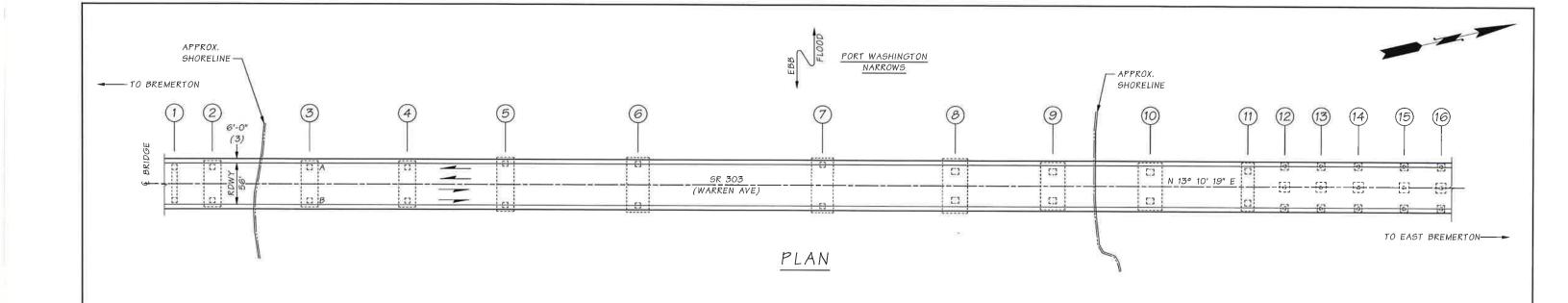
Inlet.

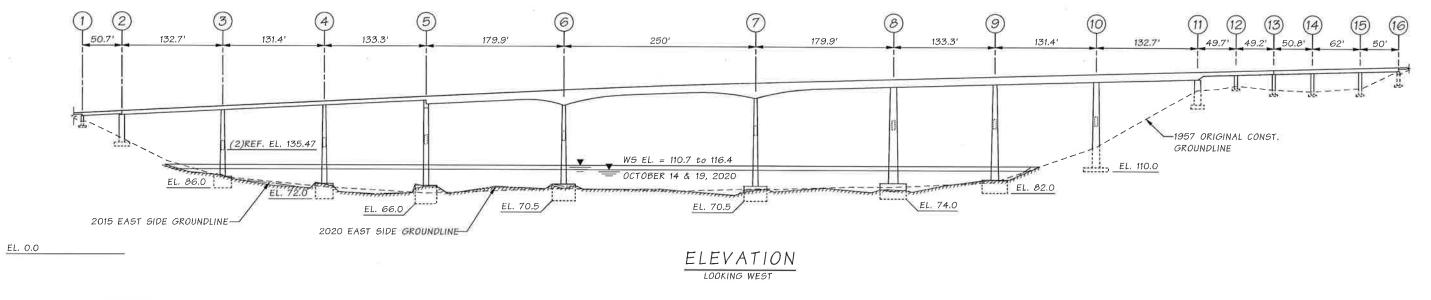


WASHINGTON STATE DEPARTMENT OF TRANSPORTATION NBI STRUCTURE INVENTORY AND APPRAISAL REPORT (ENGLISH UNITS)

CD Date: 12/8/2020 Printed on: 1/7/2021 CD Guid: 24aab633-e3cf-4171-8731-d8188854429e

	IDENTIFICATION	ON THE STATE OF TH		WSBIS DAT	A	
(1)	STATE NAME - WASHINGTON	530	BRIDGE NUMBE	R		303/12
(8)	STRUCTURE NUMBER	# 0005565A0000000	BRIDGE NAME		PORT WASHING	STON CS1840
(5)	INVENTORY ROUTE (ON/UNDER) - On	1 3 1 00303	CUSTODIAN		Wa	shington State
	STATE ROUTE MILEPOST	0.73	CROSSING DES	C	PORT WASHING	STON CS1830
(2)	HIGHWAY AGENCY DISTRICT - OL Region	03	MAIN LISTING F	LAG		М
(3)	COUNTY CODE 35 - Kitsap County	(4) PLACE CODE 00000	SUFFICIENCY R	ATING	44.17	Not SD or FO
(6)	FEATURES INTERSECTED	PORT WASHINGTON NARROWS		CLASSIFICAT	ION	
(7)	FACILITY CARRIED	SR 303	(112) NBIS BRIDGE LE	ENGTH		Y
(9)	LOCATION	0.7 N JCT SR 304	(104) HIGHWAY SYST	EM - On the NHS		1
(12)	BASE HIGHWAY NETWORK - Part of network	1	(26) FUNCTIONAL CI	LASS - Other Principal Arte	erial	14
(13)	LRS INV ROUTE AND SUB ROUTE	30300	(100) DEFENSE HIGH	WAY - Not a STRAHNET re	oute	0
(11)	LRS MILEPOST	0.73	(101) PARALLEL STRI	JCTURE - Not a parallel br	idge	N
(16)	LATITUDE	47 Deg 34 Min 41.02 Sec	(102) DIRECTION OF	TRAFFIC - 2-way traffic		2
(17)	LONGITUDE	122 Deg 37 Min 57.83 Sec	(103) TEMPORARY ST	RUCTURE - Not Applicable	le	
(98A)	BORDER BR Not a border bridge (98B) (99) BO	ORDER BR. SID - Not a border bridge	(105) FEDERAL LAND	S HIGHWAY - Not Applicat	ble	0
. ,	STRUCTURE TYPE AND		, ,	ATIONAL NETWORK - Pai		1
(43)	STRUCTURE TYPE MAIN: MATERIAL - Steel con		(20) TOLL - Non-toll s	tructure		3
	DESIGN - Girder & floori	peam sys 403	(21) MAINTENANCE	- State Highway Agency		01
(44)	STRUCTURE TYPE APPR: MATERIAL - Other		(22) OWNER - Washi	ngton State		1
	DESIGN - Mixed types	020	(37) HISTORICAL SIG	GNIFICANCE - Eligible for I	NRHP	2
(45)	NO. OF SPANS IN MAIN UNIT	3		CONDITION	V .	
(46)	NO. OF APPROACH SPANS	12	(58) DECK			5
(107)	DECK STRUCTURE TYPE - Conc. CIP	1	(59) SUPERSTRUCTU	JRE		5
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:		(60) SUBSTRUCTURE	=		6
(A)	TYPE OF WEARING SURFACE - Epoxy Overlay	5	(61) CHANNEL AND C	CHANNEL PROTECTION		8
(B)	TYPE OF MEMBRANE - None	0	(62) CULVERTS			N
	TYPE OF DECK PROTECTION - None	0		LOAD RATING AND	POSTING	
	AGE AND SERV	ICE	(31) DESIGN LOAD -	HS 20		5
(27)	YEAR BUILT	1958	(63) OPER RATING M	ETHOD - Ld Factor (LFR)	tons HS20	1
(106)	YEAR RECONSTRUCTED	0000	(64) OPERATING RAT	TING		42 T
(42)	TYPE OF SERVICE ON - Highway & Pedestrian	5	(65) INV RATING MET	THOD - Ld Factor (LFR) ton	s HS20	1
	UNDER - Highway & waterway	6	(66) INVENTORY RAT	TING		25 T
(28)	LANES: ON STRUCTURE 4	UNDER STRUCTURE 2		G - Equal or above legal loa	ads	5
(29)	AVERAGE DAILY TRAFFIC	40478	(41) STRUCT OPEN, I	POSTED, CLOSED - Open	, no restrictions	Α
(30)	YEAR OF ADT 2016	(109) TRUCK ADT 3%	East Transfer	APPRAISA		
(19)	BYPASS, DETOUR LENGTH	3 mi	(67) STRUCTURAL EV			5
(/	GEOMETRIC DA		(68) DECK GEOMETR			4
(48)	LENGTH OF MAXIMUM SPAN	250 ft	(69) UNDERCLEARAN	NCES, VERTICAL & HORIZ	ZONTAL	4
(49)	STRUCTURE LENGTH	1717 ft	(71) WATERWAY ADE	EQUACY		8
(50)	CURB OR SIDEWALK: LEFT 4.0 ft	RIGHT 4.0 ft	(72) APPROACH ROA			8
	BRIDGE ROADWAY WIDTH CURB TO CURB	54.0 ft	(36) TRAFFIC SAFET			1111
	DECK WIDTH OUT TO OUT	67.5 ft	(113) SCOUR CRITICA			3
` '	APPROACH ROADWAY WIDTH (W/SHOULDERS			PROPOSED IMPROV	VEMENTS	
	BRIDGE MEDIAN - Closed median non-m	3	(75) TYPE OF WORK			351
٠.,		5) STRUCTURE FLARED No 0	` '	UCTURE IMPROVEMENT		1717 ft
	· ·	99 ft 99 in	(94) BRIDGE IMPROV			
	INVENTORY ROUTE FOTAL LIGHT CLEAR	27 ft 00 in	, ,			\$19,230,000
	INVENTORY ROUTE TOTAL HORIZ CLEAR		(95) ROADWAY IMPR			\$3,846,000
	MIN VERT CLEAR OVER BRIDGE RDW	99 ft 99 in	(96) TOTAL PROJECT		_	\$38,461,000
	MIN VERT UNDERCLEAR	27 ft 01 in H	, ,	VEMENT COST ESTIMAT	E	2014
	MIN LAT UNDERCLEAR RT	6.7 ft H	(114) FUTURE ADT			57895
(56)	MIN LAT UNDERCLEAR LT	0.0 ft	(115) YEAR OF FUTUR			2038
(0.5)	NAVIGATION D.		(00)	INSPECTION		
	NAVIGATION CONTROL - Navigation control	1	(90) INSPECTION DA			JENCY 24 MO
	PIER PROTECTION -	1	(92) CRITICAL FEATU			(93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE	80 ft	• •	RIT DETAIL - YES -	24 Month	(A) 10/20
(116)	VERT-LIFT BRIDGE NAV MIN VERT CLR		(B) UNDERWATE	R INSP - YES -	60 Month	(B) 10/20
(40)	NAVIGATION HORIZONTAL CLR	231 ft	(C) OTHER SPEC	CIAL INSP - NO -	Month	(C)/_





DATUM CITY OF BREMERTON

LEGEND:

EL. O.O • FIELD MEASURED ELEVATION

NOTES:

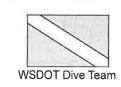
1. REFERENCE CONSTRUCTION DRAWINGS: SECONDARY STATE HIGHWAY NO. 21-B; PORT WASHINGTON NARROWS BRIDGE, DATED MAY 17, 1957.

2. REFERENCE ELEVATION: BOTTOM OF PIER 3 STRUT - EL. 135.47; BASED ON CITY OF BREMERTON DATUM.

CITY OF BREMERTON DATUM = MLLW + 109.4 FT.

3. WIDTH INCLUDES SIDEWALK AND BARRIER.

Date:	OCTOBER 14, 2020
Scale:	MGDS SCALE 1:750
Drawn By:	DON
Reviewed By:	DRB

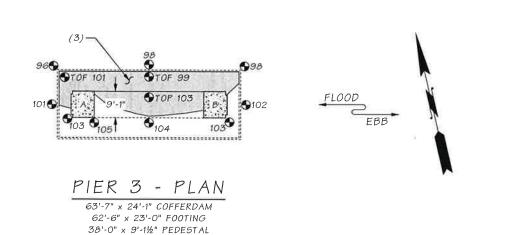


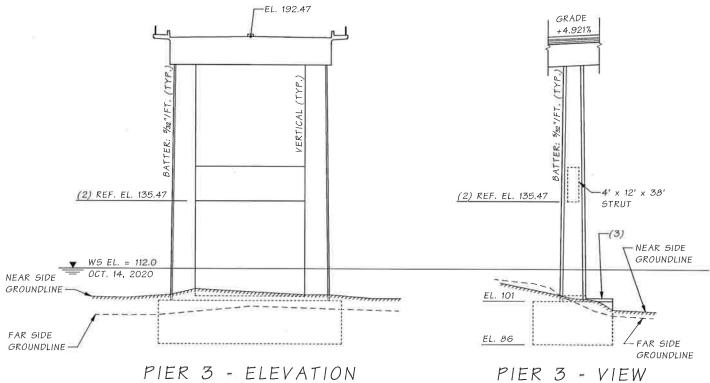


303/12 PORT WASHINGTON CS1840
WSDOT SID #0005565A
UNDERWATER INSPECTION

Thu Jan 07 08:31:26 2021

ems\303-12 Port Washington Narrows\303-12 Port Washington Narr





LEGEND:

100 FIELD MEASURED ELEVATION

EXPOSED AREA OF FOOTING AND PEDESTAL

TOP OF PEDESTAL

TOF TOP OF FOOTING

NOTES:

- 1. REFERENCE CONSTRUCTION DRAWINGS: SECONDARY STATE HIGHWAY NO. 21-B; PORT WASHINGTON NARROWS BRIDGE, DATED MAY 17, 1957.
- 2. REFERENCE ELEVATION: BOTTOM OF PIER 3 STRUT EL. 135.47; BASED ON CITY OF BREMERTON DATUM. CITY OF BREMERTON DATUM = MLLW + 109.4 FT.

LOOKING NORTH

- 3. PIER 3 EXPOSED TOP OF FOOTING (TOF) ELEVATION IS 101' (PER PLANS) VARYING ± 1 FT.
- 4. EXPOSED REMNANT SHEETPILE COFFERDAM 1 FT. TO 3 FT. ABOVE TOF.

Date: OCTOBER 14, 2020 Scale: MGDS SCALE 1:200 DON Drawn By: Reviewed By: DRB

LOOKING WEST



78 (18'@45°)



LOOKING NORTH

303/12 PORT WASHINGTON CS1840 WSDOT SID #0005565A **UNDERWATER INSPECTION**

PIER 3 AND PIER 4

86 (20' E) EBB 82 (15'@45°) PIER 4 PLAN 64'-1" x 28'-1" COFFERDAM 62'-6" x 27'-0" FOOTING 38'-0" x 9'-11/2" PEDESTAL FEL. 198.94 GRADE +4.921% EL. 139.44 - 4' x 12' x 38' STRUT ▼ WS EL. = 116.0 OCT. 19, 2020 RIPRAP TOP EL. TOF EL. SURROUNDS +/- 1 FT. (4) +/- 2 FT PIFR-EL. 92 NEAR SIDE GROUNDLINE NEAR SIDE GROUNDLINE -EL. 72 FAR SIDE FAR SIDE GROUNDLINE GROUNDLINE -PIER 4 - ELEVATION PIER 4 - VIEW

___81 (10'@45°)

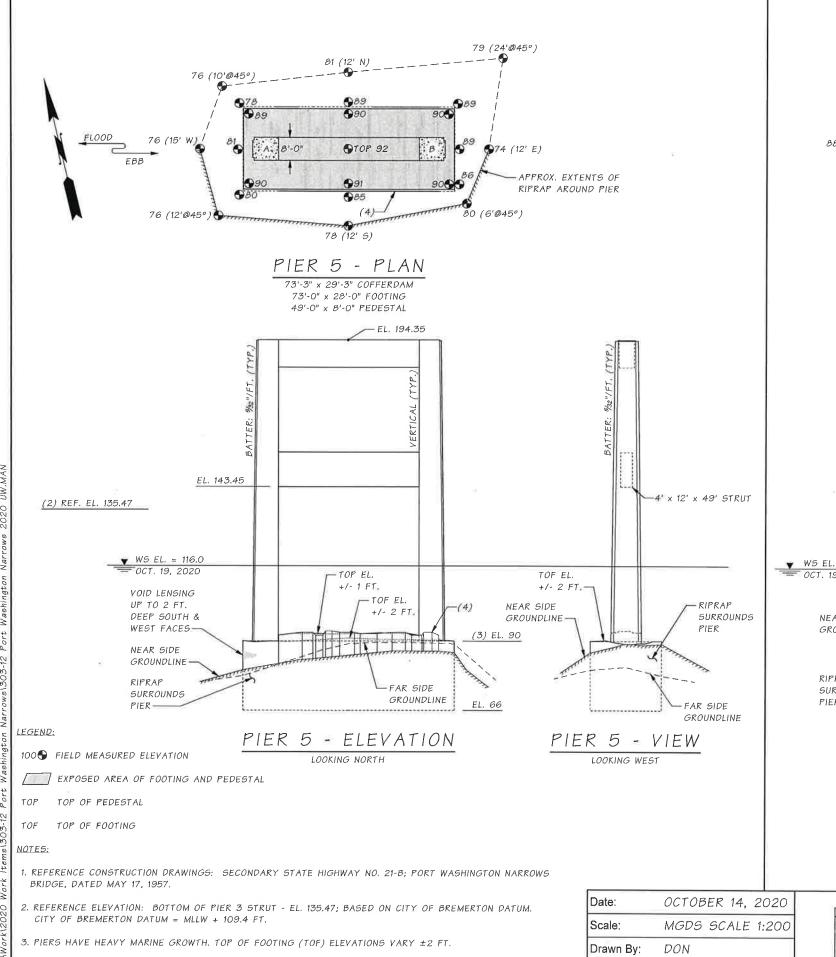
APPROX. EXTENTS OF RIPRAP AROUND PIER

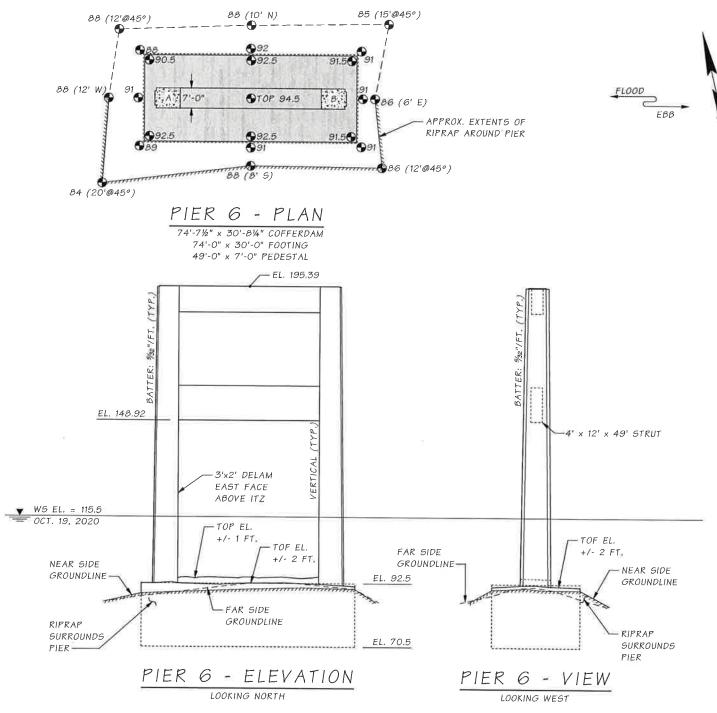
LOOKING WEST

2

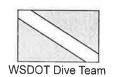
Thu Jan 07 08:30:55 2021

2





Reviewed By: DRB



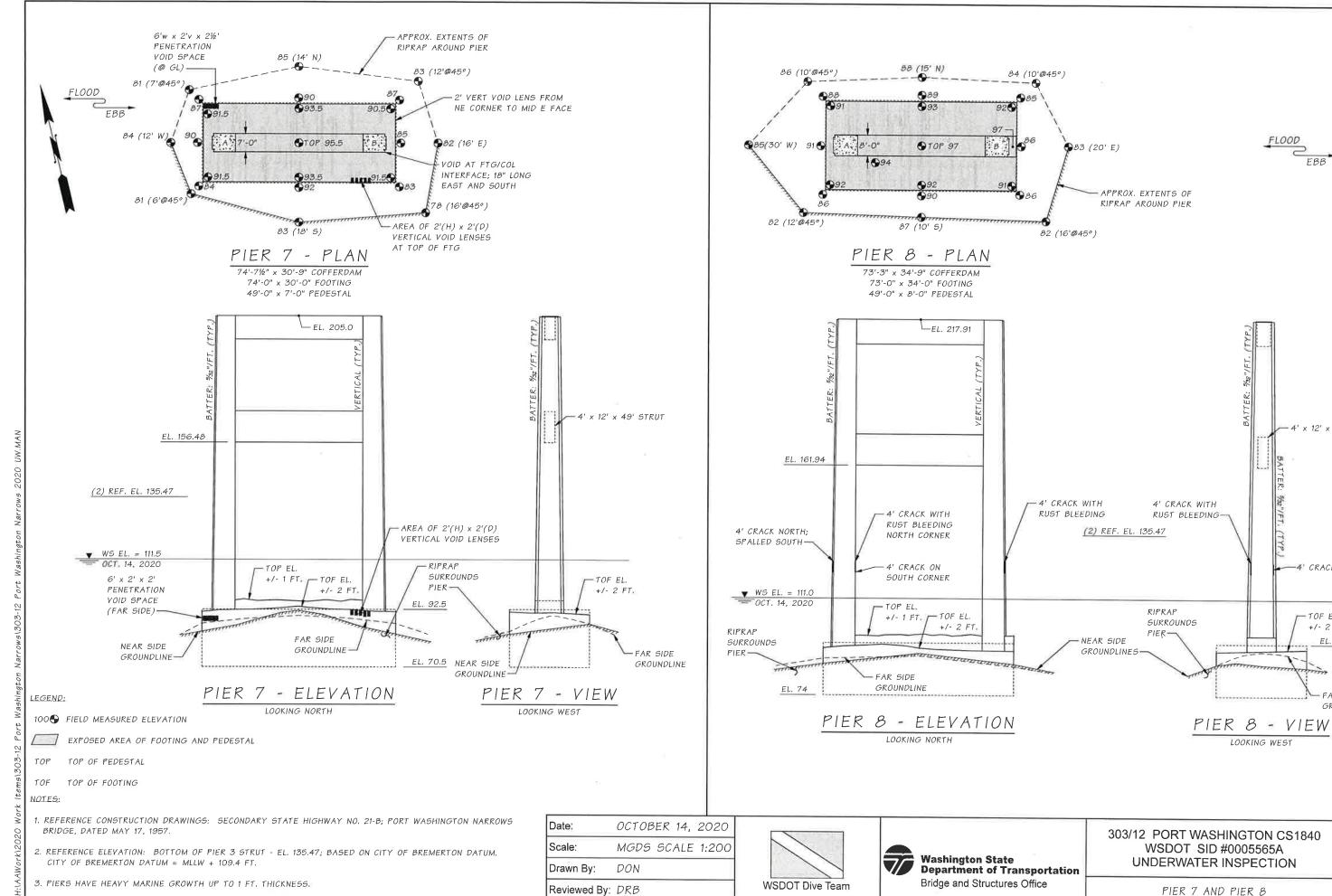


303/12 PORT WASHINGTON CS1840 WSDOT SID #0005565A **UNDERWATER INSPECTION** PIER 5 AND PIER 6

3

Thu Jan 07 08:29:09 2021

4. EXPOSED REMNANT SHEETPILE COFFERDAM 1 FT. TO 3 FT. ABOVE TOF.



FLOOD

EBB

4' x 12' x 49' STRUT

-4' CRACK

TOF EL.

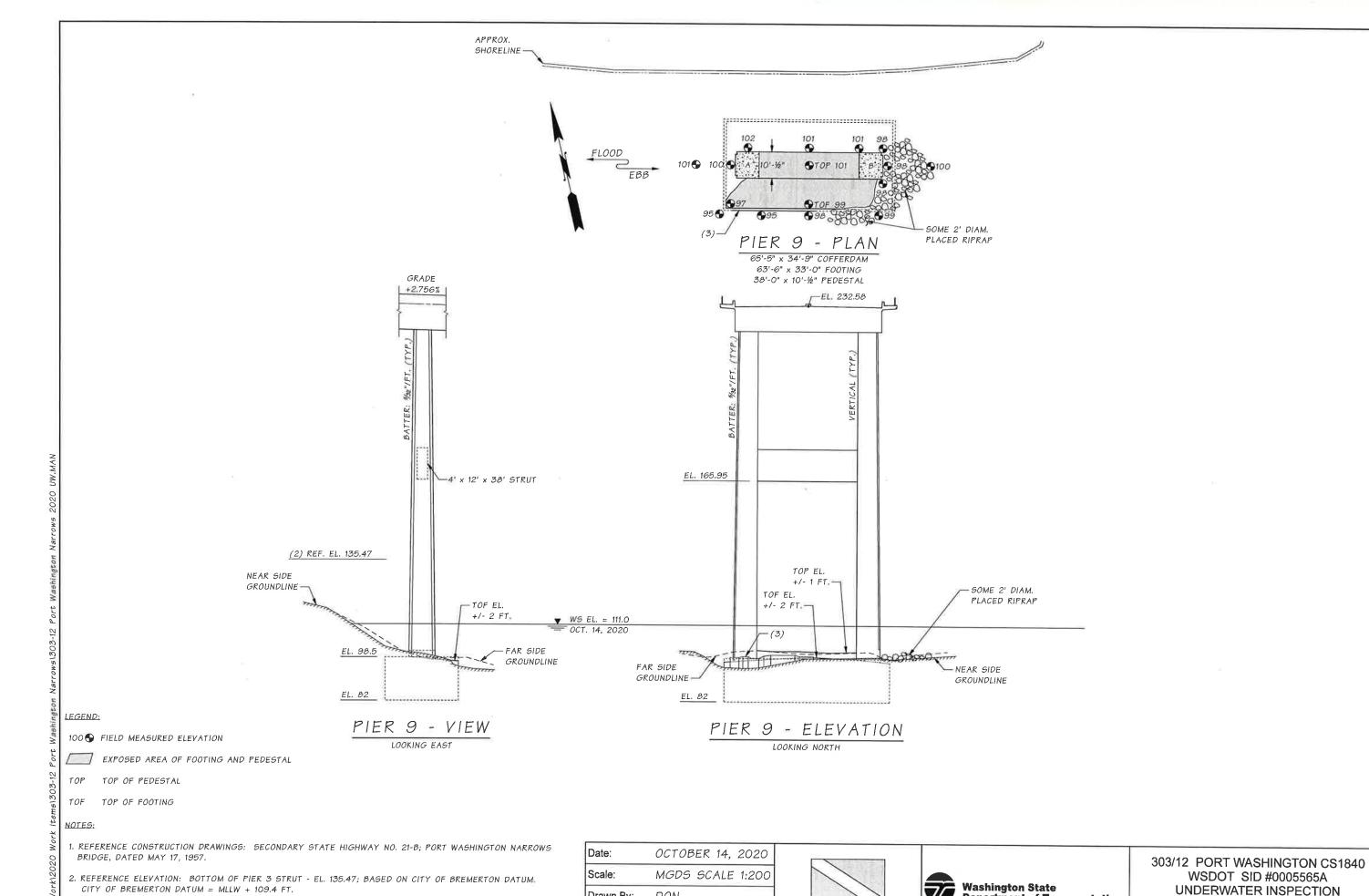
+/- 2 FT.

EL. 94

FAR SIDE

4

Thu Jan 07 08:28:30 2021



DON

Drawn By:

Reviewed By: DRB

5

PIER 9

Department of Transportation

Bridge and Structures Office

WSDOT Dive Team

Thu Jan 07 08:27:36 2021

3. EXPOSED REMNANT SHEETPILE COFFERDAM UPTO 1 FT. ABOVE TOF